

CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES  
OF WILD FAUNA AND FLORA



Fifteenth meeting of the Conference of the Parties  
Doha (Qatar), 13-25 March 2010

Species trade and conservation

TRADE IN EPIPHYTIC CACTI (CACTACEAE SPP.)

1. This document has been submitted by the Management Authority of Switzerland\*.

Background

2. The listing of Cactaceae spp. in Appendix II contained and continues to contain certain commodities of bulk trade and industrial production, as well as easily identifiable natural taxa that are virtually absent from international trade and not threatened. Consequently, the listing has been streamlined on various occasions in order to exclude taxa not threatened by trade. This led to exemption of leaf-bearing cacti (*Pereskia* spp., *Peresklopsis* spp. and *Quiabentia* spp.), artificially propagated, grafted color mutants of Cactaceae spp., certain hybrids and cultivars of epiphytic cacti (*Hatiora*, *Schlumbergera*, see below), and cultivars of *Opuntia microdasys*. Such streamlining allows for a reduction of the workload of authorities in charge of enforcement. Activities like permitting, inspection and reporting for these non-threatened taxa cease. National CITES resources can be allocated in a more effective way, especially for the monitoring of trade in wild-collected plants that are threatened by such trade and their parts and derivatives.
3. Epiphytic cacti are implicitly listed under Cactaceae spp. in Appendix II. International trade in epiphytic cacti is regulated accordingly. In recent times, trade in artificially propagated epiphytic cacti increased dramatically, as they proved to be extremely well suited for indoor cultivation. In contrast, trade in wild-collected specimens is very limited (see Annex 4) and doesn't show commercial dimensions.
4. Often traders and other stakeholders are not aware, that epiphytic cacti belong to Cactaceae and require CITES permits, because they strongly differ morphologically from terrestrial cacti. Seizures and confiscations of commercial shipments of artificially propagated epiphytic cacti that are not accompanied by the required CITES documents are therefore very frequent.
5. CITES already established exemptions for two genera of epiphytic cacti, *Hatiora* and *Schlumbergera*:

"Artificially propagated specimens of the following hybrids and/or cultivars are not subject to the provisions of the Convention:

- *Hatiora x graeseri*
- *Schlumbergera x buckleyi*
- *Schlumbergera russelliana x Schlumbergera truncata*
- *Schlumbergera orssichiana x Schlumbergera truncata*
- *Schlumbergera opuntioides x Schlumbergera truncata*
- *Schlumbergera truncata* (cultivars)"

These exemptions are very useful.

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\* The geographical designations employed in this document do not imply the expression of any opinion whatsoever on the part of the CITES Secretariat or the United Nations Environment Programme concerning the legal status of any country, territory, or area, or concerning the delimitation of its frontiers or boundaries. The responsibility for the contents of the document rests exclusively with its author.

6. However, industrial production and international bulk trade have expanded to artificially propagated plants of additional taxa. These are distributed in tropical America and the Caribbean, with *Rhipsalis baccifera* also occurring in southern Africa, Madagascar and Sri Lanka:

*Disocactus* (16 species) (not to be confounded with the genus *Discocactus*),  
*Epiphyllum* (8 species),  
*Hatiora* (5 species),  
*Lepismium* (14 species),  
*Pseudorhipsalis* (4 species) and  
*Rhipsalis* (36 species)  
*Schlumbergera* (6 species)

The genera *Selenicereus* and *Hylocereus* are not included here, mainly for two reasons, although they sometimes grow at least partly on trees:

- a) They are not part of the trade that is addressed here;
- b) They differ morphologically quite clearly from the genera mentioned above by development of abundant aerial roots, solid, angulate stems and much bigger dimensions. It is therefore reasonably easy to tell them apart from the epiphytic cacti in a stricter sense, which are concerned here. Often they are rooted in the ground and show a climbing and rambling habit. Consequently they often don't constitute epiphytes in a strict sense.

However, it shall be left to the Plants Committee to define the scope of the task. Which task?

7. Identification of these epiphytic cacti and especially distinction from other groups of Cactaceae is reasonably easy and safe. They are morphologically strongly different from other members of Cactaceae. Epiphytic cacti constitute a morphologically quite uniform entity, due to adaptation to a very specialized habitat. They don't live in very arid environments, but grow on trees and sometimes on rocks in forest vegetation, such as rain forests and cloud forests. Generally, they lack pungent spines and instead possess only hairs and bristles, arranged in widely spaced areoles. They have delicate, green, mostly slender, segmented and multiply branched, terete or flattened, mostly hanging stems and rather small dimensions (see Annex 2).
8. Epiphytic cacti are propagated on industrial scale in many nurseries worldwide. Mass propagation from cuttings is very easy, fast and cheap (see Annex 2). Many species are cultivated and traded in hanging baskets. In commercial trade, they are often found in shipments of non-succulent indoor plants. Mixed shipments of diverse plants in hanging baskets, for instance, often partly contain epiphytic cacti; they require cultivation techniques that are different from those of terrestrial cacti. Consequently their production and trade is not strongly linked with terrestrial cacti. Although many cactus collectors cultivate a few epiphytic cacti and there are even very few specialized collections, the great majority of epiphytic cacti in trade is addressed to a general public. All this contributes to the lack of awareness that they belong to Cactaceae and require CITES permits in international trade.
9. A preliminary survey of conservation status (see Annex 3) and international trade (see Annex 4) shows, that international trade is not a major threat to epiphytic cacti. There is nearly no reported export of wild-collected specimens from range States and there is no evidence for any significant commercial trade in such specimens (see Annex 4). In fact, habitat loss is indicated as major factor for all assessed species that have a status other than Least Concern or Data Deficient (see Annex 3). This makes it difficult for CITES to contribute to the conservation of these taxa.

#### Proposal

10. In order to continue streamlining of the listing of Cactaceae spp. in Appendix II, the proposal in Annex 1 is submitted for consideration of CoP15.

## COMMENT FROM THE SECRETARIAT

The Secretariat supports Switzerland's proposal to review the listing of epiphytic cacti in Appendix II. However, in order to harmonize the nature and approach of the activities directed to the Plants Committee, the Secretariat invites the Conference of the Parties to consider the possibility of undertaking these reviews in the same way as proposed for *Euphorbia* spp. The Secretariat has drafted an alternative decision that is contained in its comments to document CoP15 Doc. 56 on *Euphorbia* spp.

DRAFT DECISION OF THE CONFERENCE OF THE PARTIES

Assessment of trade in epiphytic cacti and review of listing of Cactaceae spp. in Appendix II

***Directed to the Plants Committee***

15.XX The Plants Committee shall assess trade in epiphytic cacti, considering the information of document CoP15 Doc. xx and focusing especially on the genera *Disocactus*, *Epiphyllum*, *Hatiora*, *Lepismium*, *Pseudorhipsalis*, *Rhipsalis* and *Schlumbergera*. The Plants Committee shall consult with range States and if appropriate, encourage and support range States to submit proposals to exempt certain taxa of epiphytic cacti from Appendix II for consideration of the 16th meeting of the Conference of the Parties. If there are many range States for a certain taxon, rendering it difficult to allocate responsibilities, or if range States do not take action, the Plants Committee shall prepare such proposals.

Estimated costs

No budget needs to be allocated to this task, as it requires activities of the Plants Committee, CITES Authorities of Parties and voluntary experts. Activities of the Secretariat are restricted to one or a few notifications to Parties.

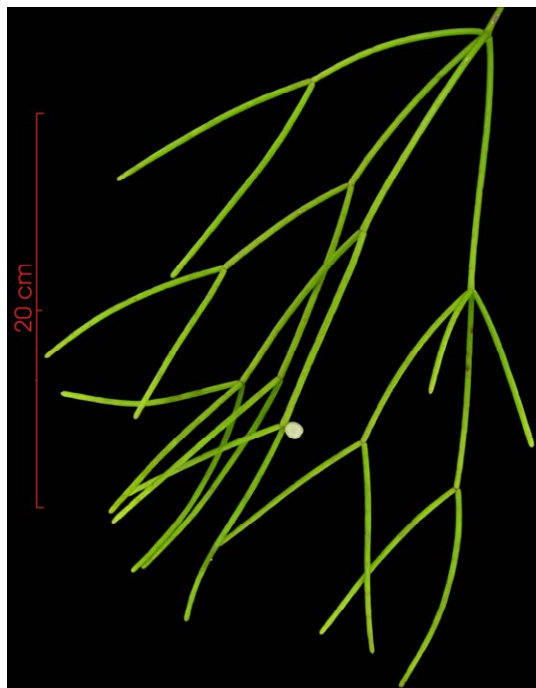
ILLUSTRATIONS



Industrial production of *Rhipsalis* sp. in eastern Africa for international trade.



Artificially propagated *Rhipsalis* spp. in trade. They are often not recognized as cacti.



*Rhipsalis baccifera* is very common in international trade. It shows the characteristic morphology of an epiphytic cactus.

## IUCN RED LIST STATUS OF EPIPHYTIC CACTI

The following assessments are available:

### Genus *Rhipsalis*

*R. cereoides*: Status: Vulnerable B2ab(iii); Pop. trend: decreasing; **Major Threat(s): Loss of habitat** (<http://www.iucnredlist.org/details/40868/0>).

*R. crispata*: Status: Vulnerable B2ab(iii); Pop. trend: decreasing; **Major Threat(s): Habitat loss due to a variety of factors** (<http://www.iucnredlist.org/details/40864/0>).

*R. elliptica*: Status: Least Concern (<http://www.iucnredlist.org/details/46524/0>).

*R. floccosa*: Status: Least Concern (<http://www.iucnredlist.org/details/46525/0>).

*R. hoelleri*: Status: Data Deficient; Pop. trend: unknown (<http://www.iucnredlist.org/details/40872/0>).

*R. oblonga*: Status: Near Threatened; Pop. trend: decreasing; **Major Threat(s): Habitat loss due to agriculture and logging** (<http://www.iucnredlist.org/details/40863/0>).

*R. pacheco-leonis*: Status: Data Deficient; Pop. trend: unknown; **Major Threat(s): Loss of habitat** (<http://www.iucnredlist.org/details/40866/0>).

*R. paradoxa*: Status: Least Concern (<http://www.iucnredlist.org/details/46526/0>).

*R. pilocarpa*: Status: Vulnerable B2ab(i,ii,iii,iv); Pop. trend: decreasing; **Major Threat(s): Loss of habitat** (<http://www.iucnredlist.org/details/40871/0>).

*R. russelii*: Status: Vulnerable B2ab(iii,iv); Pop. trend: decreasing; **Major Threat(s): Habitat loss due to agriculture and logging** (<http://www.iucnredlist.org/details/40862/0>).

*R. sulcata*: Status: Data Deficient; Pop. trend: unknown; **Major Threat(s): Loss of habitat** (<http://www.iucnredlist.org/details/40869/0>).

### Genus *Lepismium*

*L. cruciforme*: Status: Least Concern (<http://www.iucnredlist.org/details/46523/0>).

*L. houlettianum*: Status: Least Concern (<http://www.iucnredlist.org/details/46521/0>).

*L. warmingianum*: Status: Least Concern (<http://www.iucnredlist.org/details/46522/0>).

### Genus *Epiphyllum*

*E. phyllanthus*: Status: Least Concern (<http://www.iucnredlist.org/details/46520/0>).

### Genus *Schlumbergera*

*S. kautskyi*: Status: Endangered B2ab(iii); Pop. trend: decreasing; **Major Threat(s): Loss of habitat** (<http://www.iucnredlist.org/details/40873/0>).

*S. microsphaerica*: Status: Data Deficient; Pop. trend: unknown; **Major Threat(s): Loss of habitat** (<http://www.iucnredlist.org/details/40874/0>).

*S. opuntioides*: Status: Near Threatened; Pop. trend: unknown; **Major Threat(s): Loss of habitat** (<http://www.iucnredlist.org/details/40875/0>).

REPORTED TRADE IN EPIPHYTIC CACTI

Genus *Disocactus*, gross exports from range States (search with source code W)

Taxon	Term	Unit	Country	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Disocactus spp.	dried plants		PE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	
Disocactus spp.	live		CR	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus spp.	live		MX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus spp.	live		NI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Disocactus amazonicus	live		CR	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus amazonicus	live		VE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus aurantiacus	live		HN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus flagelliformis	live		MX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus martianus	live		MX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus schrankii	live		MX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus spp.	dried plants		PE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
Disocactus spp.	live		CR	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus spp.	live		MX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus spp.	live		NI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Disocactus amazonicus	live		CR	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus amazonicus	live		VE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus aurantiacus	live		HN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus flagelliformis	live		MX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus martianus	live		MX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disocactus schrankii	live		MX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Genus *Epiphyllum*, gross exports from range States (search with source code W)

Taxon	Term	Unit	Country	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Epiphyllum spp.	dried plants		CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	
Epiphyllum spp.	dried plants		EC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epiphyllum spp.	dried plants		SR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Epiphyllum spp.	live		BO	0	0	0	0	0	0	0	0	0	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epiphyllum spp.	live		BR	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epiphyllum spp.	live		BZ	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	
Epiphyllum spp.	live		CR	0	0	0	0	0	0	0	0	1	0	0	0	0	7	0	0	0	6	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
Epiphyllum spp.	live		EC	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	
Epiphyllum spp.	live		GT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	0	0	0	0	0	0	0	0	0	0	
Epiphyllum spp.	live		GY	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Epiphyllum spp.	live		HN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epiphyllum spp.	live		MX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Genus *Hatiora*, gross exports from range State (Brazil only, search with source code W)

Taxon	Term	Unit	Country	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Hatiora salicornioides	live		BR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Genus *Lepismium*, gross exports from range States (search with source code W)

Taxon	Term	Unit	Country	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Lepismium spp.	dried plants		BO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0		
Lepismium aculeatum	dried plants		UY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	
Lepismium aculeatum	live		AR	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lepismium cruciforme	live		AR	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lepismium cruciforme	live		PY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lepismium ianthothele	live		AR	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lepismium lumbricoides	live		AR	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	
Lepismium warmingianum	live		AR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	

Genus *Pseudorhipsis*, gross exports from range States (search with source code W)

Taxon	Term	Unit	Country	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Pseudorhipsis ramulosa	live		CR	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pseudorhipsis ramulosa	live		CR	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pseudorhipsis ramulosa	live		CR	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	



Genus *Rhipsalis*, gross exports (search with source code W, countries other than America and southern Africa deleted)

Taxon	Term	Unit	Country	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008				
Rhipsalis spp.	dried plants		BO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0					
Rhipsalis spp.	dried plants		EC	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0				
Rhipsalis spp.	dried plants		MG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	4	3	0				
Rhipsalis spp.	live		AR	0	0	0	0	0	0	0	2	0	0	22	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
Rhipsalis spp.	live		BR	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Rhipsalis spp.	live		BZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1	0	0	0	0				
Rhipsalis spp.	live		CR	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Rhipsalis spp.	live		DO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0			
Rhipsalis spp.	live		HN	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Rhipsalis spp.	live		JM	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0			
Rhipsalis spp.	live		MG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Rhipsalis spp.	live		MX	0	0	0	0	0	0	0	0	0	50	12	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Rhipsalis spp.	live		NI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
Rhipsalis spp.	live		PA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Rhipsalis spp.	live		PE	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	10	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rhipsalis spp.	live		PY	0	0	0	0	0	0	0	24	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rhipsalis spp.	live		SR	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rhipsalis spp.	live		US	0	0	0	0	340	65	26	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	
Rhipsalis spp.	seeds	g	MG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Rhipsalis spp.	specimens		CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0		
Rhipsalis spp.	specimens		EC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rhipsalis spp.	stems		BZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	
Rhipsalis baccifera	dried plants		CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
Rhipsalis baccifera	dried plants		CU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rhipsalis baccifera	dried plants		EC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
Rhipsalis baccifera	dried plants		MG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	5	0	0	0	0		
Rhipsalis baccifera	dried plants		PE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhipsalis baccifera	flowers		MG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	
Rhipsalis baccifera	live		CR	0	0	0	0	0	0	0	2	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhipsalis baccifera	live		DO	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhipsalis baccifera	live		HN	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhipsalis baccifera	live		JM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhipsalis baccifera	live		MG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0

